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(WO/2003/064188) METHOD AND SYSTEMS FOR MEASURING THE DEGREE OF TYRE WEAR

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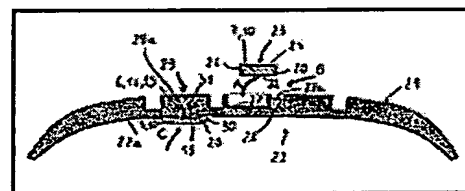
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Title: (EN) METHOD AND SYSTEMS FOR MEASURING THE DEGREE OF TYRE WEAR
(FR) PROCEDE ET SYSTEMES DE MESURE DU DEGRE D'USURE D'UN PNEUMATIQUE

Abstract: (EN) The invention relates to a method of detecting if one or more pre-determined tyre (22) wear thresholds are reached, said tyre (22) comprising tread design elements (23, 28, 29). The inventive method consists in assigning a discrete wear variable for the element (23, 28, 29) to a discrete impedance variable that is representative of the impedance of a passive circuit which is contained in at least one of said elements (23, 28, 29). According to the invention, a system for carrying out said method comprises: a detection box (19) which is intended to be incorporated into a tyre (22) and which contains the aforementioned passive circuit (3, 10), said circuit being covered by rubber (20) and comprising a coil (1) and n ($n \geq 1$) capacitor(s) (4, 5 or 11, 12, 13), which are shunted to the terminals (1a, 1b) of the coil (1); and an active inquiry circuit (40), to which the passive circuit is connected, which is solidly mounted to the wheel and which comprises a frequency sweep power generator (41) and a means of detecting (45) tuned frequencies between the passive circuit (3 or 10) and the inquiry circuit (40).



(FR) Le procédé selon l'invention de détection de l'atteinte d'un ou plusieurs seuils prédéterminés d'usure d'un pneumatique (22) comportant des éléments de sculpture (23, 28, 29) comprend l'affectation, à une variable discrète d'impédance représentative de l'impédance d'un circuit accordé passif contenu dans l'un au moins des éléments (23, 28, 29) d'une variable discrète d'usure de l'élément (23, 28, 29). Un système selon l'invention pour la mise en oeuvre de ce procédé comporte : - un boîtier (19) de détection destiné à être incorporé à un pneumatique (22) et contenant ce circuit passif (3, 10) qui est recouvert par du caoutchouc (20) et qui comporte une bobine (1) et n ($n \geq 1$) condensateur(s) (4, 5 ou 11, 12, 13) montés(s)

... (10) et qui comporte une bobine (1) et - un circuit d'interrogation actif (40) auquel le circuit passif est couplé, qui est monté solidaire de la roue et qui comporte un générateur d'énergie à balayage de fréquence (41) et un moyen de détection (45) des fréquences d'accord entre le circuit passif (3 ou 10) et le circuit d'interrogation (40).

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